



[2345/41A]

4/1A  
6/2/03  
D

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s) : HAGENAUER et al. **RECEIVED**  
Serial No. : 10/043,710 **MAY 22 2003**  
Filed : January 9, 2002 **Technology Center 2600**  
For : **DECODING METHOD AND DECODING DEVICE  
FOR A CDMA TRANSMISSION SYSTEM FOR  
DEMODULATING A RECEIVED SIGNAL  
AVAILABLE IN SERIAL CODE CONCATENATION**  
Examiner : K. Burd  
Art Unit : 2631

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on  
Date: May 14, 2003  
Signature: Linda M. Shudy  
Linda M. Shudy (Reg. No. 47-084)

**AMENDMENT**

SIR:

In response to the Office Action mailed on November 14, 2002, please reconsider the above-identified application based on the following:

**IN THE CLAIMS:**

Please amend without prejudice claims 1, 10 to 15 and 17, as follows:

- Sub B1
1. (Amended) A decoding method for demodulating a received signal available in serial code concatenation in a code-division multiple access transmission system, a two-step coding being carried out at the transmitting end of the transmission system, the method comprising:
- providing a soft-in/soft-out decoder in a receiver of the transmission system, a first decoder step of the soft-in/soft-out decoder including an inner decoder and a Hadamard orthogonal multi-step inner code, a second decoder step of the soft-in/soft-out